



Department of Solid Waste Management

Solid Waste Management

101 CITY HALL PLAZA
DURHAM, NC 27701
P 919.560.4186
F 919.560.1197

Donald.Long@durhamnc.gov

Waste Diversion Update



City of Durham & Sonoco Recycling

Recycling Partnership
2010 Recap



Overview of Partnership

City of Durham recycling trucks deliver recyclable material to Sonoco Recycling, located at 4619 Industry Lane, Durham NC 27703. There is no cost from Sonoco Recycling to the City of Durham for this partnership.

- Contract started December 14, 2009.
- Contract expires December 14, 2011.

FY 2011 Highlights



- Delivered approximately 13,960 tons to Sonoco Recycling in the first year
- Additional 45 tons from the e-cycling and shredding events.

Highlights Continued...



Sonoco Recycling sponsored three public E-Waste and Shred Day Events.

- **April 2010** – collected 7,640 pounds of paper for shredding and 18,472 pounds of E-Waste
- **October 2010** – collected 34,600 pounds of paper for shredding and 73,820 pounds of E-Waste
- **January 2011** - collected 3,600 pounds of cardboard, 30,600 pounds of paper, 59,555 pounds of E-waste and 1,100 pounds of Christmas trees.

Highlights Continued...

Sonoco Recycling provided City of Durham Solid Waste Staff with 100,000 Recycling Cart Stickers in July of 2010. Stickers help guide residents on acceptable recycling materials that is allowable in the recycling cart.

RECYCLE / RECICLE		 CITY OF DURHAM www.durhamnc.gov/departments/solid <i>Remember</i> It is illegal to throw away plastic bottles in NC FOR HELP CALL PARA AYUDA LLAME AL: 919/560.1200  www.sonocorecycling.com	DO NOT RECYCLE / NO RECICLE	
 All paper, junkmail, paperback books (no food residue)	 Glass, tin, metals, aluminum (no scrap metal)		 NO hardback books, foil coated, food contaminated or moisture resistant boxes	 NO paint cans, motor oil, or hazardous waste
 Plastic containers free of hazardous materials and food contamination	 NEW! Rigid plastics made of HDPE must be <2' in length and 40 lbs.	 NO glass cookware / dishes, or lightbulbs	 NO plastic bags, styrofoam, lids, or caps	



Highlights Continued...

Sonoco Recycling provided funding of \$10,000 to City of Durham to assist in Public Service Announcements, with the goal of increasing recycling awareness and waste reduction opportunities throughout the City.

Sonoco Recycling sent out introduction letters to all Durham Public Elementary Schools. Goal of letter was to provide assistance in increasing recycling awareness throughout schools.

In May of 2010, Sonoco Recycling submitted a long term partnership plan with 3 options that would provide the City with revenue options

Option 1:

- Purchase 3 walking floors
- Receive revenue at \$15 per ton
- Potential to earn approximately \$209,250 in revenue

Option 2:

- Purchase 3 walking floors
- A monthly salary contribution of \$5,000 for City Solid Waste Staff
- Receive revenue at \$10 per ton
- Potential to earn approximately \$199,600 with \$60,000 in revenue guaranteed

Option 3:

- Receive revenue at \$15 per ton
- Potential to earn approximately \$209,400 in revenue

***All figures computed with last year's tonnages**



Comprehensive Solid Waste Disposal Plan

The Department is currently reviewing proposals to hire a Consultant to assist the Department with developing and implementing a Comprehensive Solid Waste Disposal Plan.

The Plan will review current transfer station operations, convenience center management, and options for the design and building of a facility that will establish waste diversion as a primary goal.



Shingle Recycling

Program Design

Shingle Recycling – May 1, 2011

Beginning on May 1st, the City of Durham will provide recycling of shingles for customers at the Transfer Station.

SHINGLE RECYCLING AREA BELOW





Monitored Shingle Separation

The Transfer Station permit has been modified to allow the following:

- **Sorting of shingles at the Transfer Station**

****Only shingles free of discards will be transported to the selected vendor****

COST SAVINGS

- Projected diversion of shingles from the waste stream in 2011 is estimated to be 833 tons.
- Projected disposal cost savings
= \$35,407





E-Waste Recycling

Program Design



Collection of Electronics from HHW Site & Transfer Station

Solid Waste Management (SWM) will partner with E-Cycle Secure to dispose of all e-waste free of charge.

By having E-Cycle Secure dispose of all e-waste from the Transfer Station and HHW site, SWM can save an estimated **\$31,000** in contractual services with an existing vendor (Ecoflo) who currently charges SWM for disposal.



Packaging & Loading of the E-Waste

E-Cycle Secure requires E-waste be:

- Placed on pallets and shrink wrapped
- The vendor will provide the trailers, gaylord boxes, and pallets, if needed
- The vendor will be contacted to collect E-waste when trailers are filled to capacity

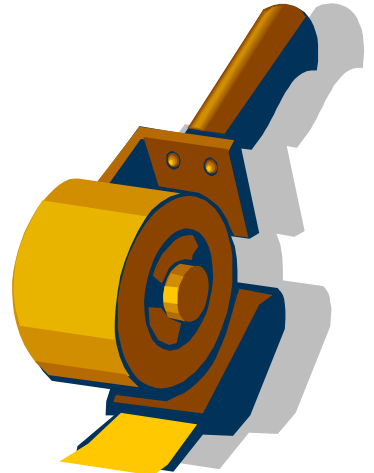
Equipment Needed

Heavy Duty Hand wrappers- \$89.00 each
($\$89.00 \times 2 = \178.00)

Shrink Wrap Rolls-24 rolls/\$336
($\$336.00 \times 2 = \672.00)

Pallets provided free of charge

**Projected cost for supplies: \$850
for a period of six months**



QUESTIONS

